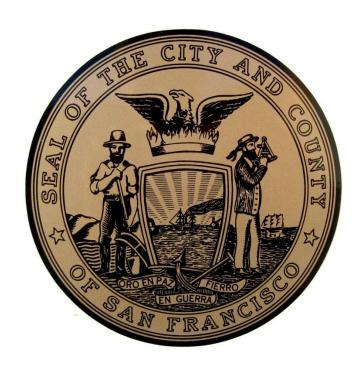
City and County of San Francisco

San Francisco's 100 Resilient Cities Challenge



Rockefeller Foundation's 100 Resilient Cities Challenge







San Francisco: Built World Snap Shot



825,863



147,979



6,381

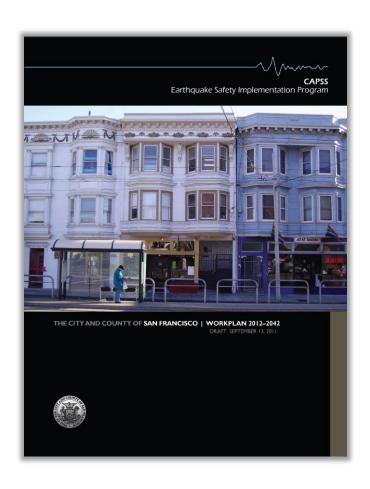
Total Population

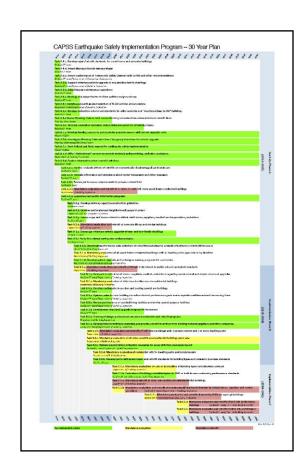
Buildings in San Francisco

Noticed Buildings Soft Story Program



Earthquake Safety Implementation Program







The Soft Story Ordinance

AMENDED IN COMMITTEE FILE NO. 130119 ORDINANCE NO. 66-13 [Building Code - Mandatory Seismic Retrofit Program: - Wood-Frame Buildings; Optional Evaluation Form Feel 3 Ordinance amending the Building Code to establish a Mandatory Seismic Retrofit Program for wood-frame buildings of three or more stories or two stories over a basement or underfloor area that has any portion extending above grade, and containing five or more dwelling units where the permit to construct was applied for prior to January 1, 1978, and the building has not been seismically strengthened; establishing a fee for administering the program; adopting environmental findings and findings of local conditions under California Health and Safety Code, Section 17958.7; 10 establishing an operative date; and directing the Clerk of the Board to forward the 11 legislation to specified State agencies. 12 Additions are <u>single-underline italies Times New Roman;</u> deletions are <u>strike-through</u> haties Times New Roman. 13 Board amendment additions are double-underlined: Board amendment deletions are strikethrough normal. 14 15 Be it ordained by the People of the City and County of San Francisco: 16 Section 1. General Findings. 17 (a) At a duly noticed public hearing held on February 20, 2013, the Building Inspection 18 19 (b) The Planning Department has determined that the actions contemplated in this 20 ordinance comply with the California Environmental Quality Act (California Public Resources 21 Code Section 21000 et seq.). Said determination is on file with the Clerk of the Board of 22 Supervisors in File No. 130119 and is incorporated herein by reference. 23 (c) In Section 19160 of the California Health & Safety Code, the State Legislature 24 declared that because of the generally acknowledged fact that California will experience moderate to severe earthquakes in the foreseeable future, increased efforts to reduce Mayor Lee, Supervisor Chiu, Wiener, Yoo, Famell, Breed, Mar, Tang, Cohen BOARD OF SUPERVISORS Pane 1



Compliance Tier	Submission of Screening Form and Optional Evaluation Form	Submittal of Permit Application with Plans for Seismic Retrofit Work	Completion of Work And Issuance of CFC
1	1	2	4
II	1	3	5
Ш	1	4	6
IV	1	5	7



The Soft Story Problem





The Soft Story Problem

 This condition is due to large openings in the perimeter walls and to a lack of interior partition walls at the ground level. Usually, perimeter wall openings at the ground level make way for garage doors or large windows.



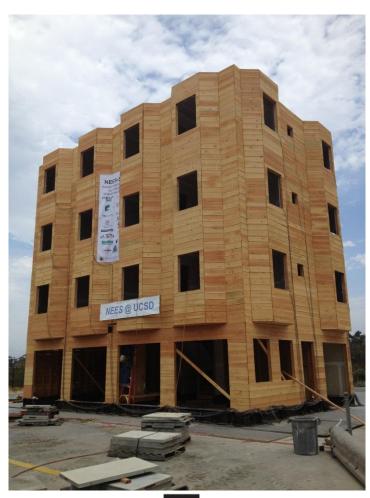


The Soft Story Ordinance

- Requires seismic retrofit of roughly 3,500 buildings over the next 4-7 years.
- Protects over 58,000 people occupy these buildings, and they house nearly 2,000 businesses employing nearly 7,000 people.
- With retrofit, collapses could be reduced to less than one percent of these buildings.



NEES Testing – San Diego, CA





Building Private Industry Relationships



Earthquake Safety Implementation Program

Some Current Tasks







Private Schools

Voluntary Cripple Wall Retrofits

Façade Maintenance



Private Schools



1933 Long Beach Earthquake killed 115 people and damaged several schools leading to the passage of the Field Act.

- Private schools are currently not required to meet the same standards as public schools
- Approximately 1/3 of SF children attend private schools
- Public expectation does not reflect reality
- Collapse or extensive damage to even a few schools can result in many deaths or injuries to children
- Schools are an essential part of the City's post-disaster recovery efforts.



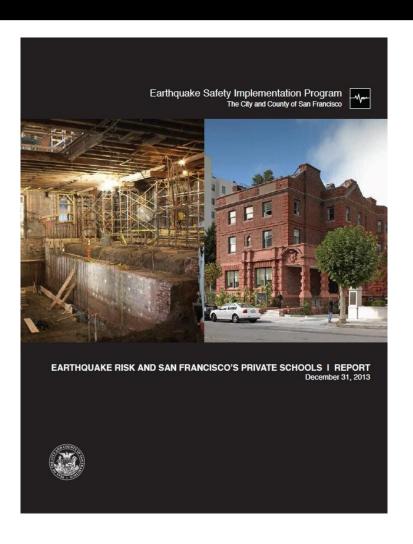
Private Schools



- Policy working group established in early 2012
- Outreach to every private school administrator for participation
- Examined and discussed all policy options at length
- Final policy recommendations endorsed by Mayor Lee in early 2014
- Policy recommendations will be for mandatory structural evaluations of all San Francisco private schools



Private Schools



- Final policy recommendations to Mayor Lee in early 2014
- Policy recommendations will be for mandatory structural evaluations of all San Francisco private schools within 3 years.
- Ordinance is currently under review by the Board of Supervisors.

Façade Maintenance Program



Façade programs exist in the following cities:

New York

Boston

Chicago

Columbus

Detroit

Milwaukee

Philadelphia

Pittsburg

St. Louis

San Francisco will be the first west coast city to adopt a façade ordinance



Façade Maintenance Program



Program Requirements

- Working group policy analysis underway
- Periodic inspection of façade by engineer of the owners choosing
- Reports submitted to the Department of Building Inspection
- Requires mitigation of unsafe conditions



Voluntary Cripple Wall Retrofits

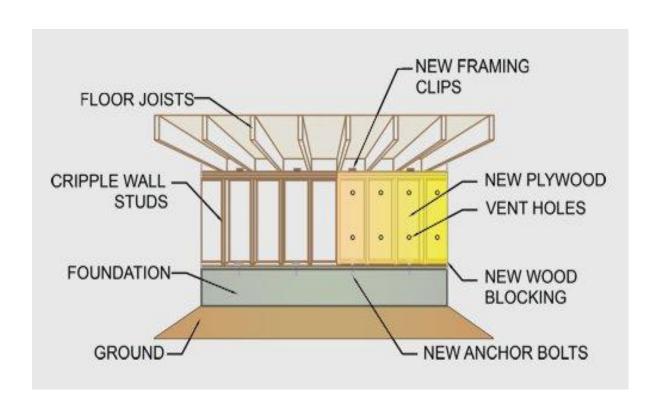


California Residential Mitigation Program

- Provides a \$3,000 rebate for retrofits done in accordance with CEBC Appendix A3
 - In process of local SFBC Administrative Bulletin for implementation



Voluntary Cripple Wall Retrofits



- CEBC Appendix A3 is a prescriptive method of retrofit for cripple walls 4' or less
- Exception allows for larger cripple walls when recommended by an engineer



Get Involved!







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